5th Semi-Annual Report: The Early Action Compact for the San Antonio Region

June 2005

Prepared by the Alamo Area Council of Governments

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Abstract:
Protocol for the Early Action Compact (EAC) stipulates that areas participating in the compact will assess and report their progress against milestones every six months. The Clean Air Plan for the San Antonio Metropolitan Statistical Area (MSA) is responsible for detailing and demonstrating the MSA's commitment to achieving and maintaining the 8-hour ozone standard through regional voluntary efforts. The implementation of the Clean Air Plan is achieved by completing milestones stipulated by the Environmental Protection Agency on a set timeline. Several milestones were accomplished from January 2005 to June 2005, such as the submittal of the updated Conceptual Model, that includes the 2004 ozone season data and 2004 meteorological data, progress of the newly formed Alamo Clean Air Partnership, continuing progress with emissions inventory updates, progress of Emissions Trend Analysis, and public outreach.

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Chapter 1 – Introduction

During the ozone seasons of 2000 through 2002, local air quality monitors in the San Antonio region recorded ozone levels above the concentrations allowed under the 8-hour ozone National Ambient Air Quality Standards (NAAQS). Moreover, in June of 2002, area monitors recorded some of the highest 8-hour and 1-hour ozone values on record since 1998[1]. This was associated with a regional event. Since U.S. Environmental Protection Agency (EPA) guidance[2] suggested that the Metropolitan Statistical Area be considered as the boundaries for new 8-hour ozone non-attainment areas, air quality planning focused on Bexar, Comal, Guadalupe and Wilson Counties. These four counties are called "the San Antonio EAC Region" (SAER) in this document since they comprised the Metropolitan Statistical Area of San Antonio on December 9, 2002, the signing date of the Early Action Compact (EAC) for the San Antonio region. The local signatory governments to the EAC are within these four counties.

On April 15, 2004, the counties of Bexar, Comal, and Guadalupe were declared “nonattainment deferred” by the EPA. The designation occurred under the 8-hour average ozone NAAQS. The effective date of the nonattainment designation was deferred because the Clean Air Plan for the San Antonio region, developed under the EAC protocol, was effective and in force.

1.1 Clean Air Plan

The Early Action Compact protocol is designed to guide development and implementation of control strategies, including planning for near-term growth, in order to achieve and maintain the 8-hour ozone standard. This compact offers a timeline with a more rapid timeframe for achieving emission reductions the than EPA's 8-hour implementation rulemaking[3], while providing "fail-safe" provisions for the area to revert to traditional nonattainment processes if specific milestones are not met. In general, these early action plans will include all necessary elements of a comprehensive traditional SIP air quality plan, but are tailored to local needs and driven by local decisions. The EAC agreement signed by the EPA, the Texas Commission on Environmental Quality (TCEQ), and local elected officials is available online at: http://www.aacog.com/cap/.

The Clean Air Plan embodies and documents the local planning created from guidance provided by the EAC protocol. As a working document, the Plan provides comprehensive planning for the ozone challenge before the four-county San Antonio EAC Region. The final Clean Air Plan required the adoption of control strategies or methodologies for lowering ozone concentrations to acceptable levels. Proposed strategies undergo performance analyses in the photochemical model and are reviewed by staff from the Alamo Area Council of Governments (AACOG). Model results are then presented to the Air Improvement Resources (AIR) Committees of

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[1] On June 24, 2002, the CAMS 23 monitor, located near Marshall High School in San Antonio, recorded a 1-hour average ozone value of 126 parts per billion (ppb), an exceedance of the 1-hour ozone NAAQS. The most recent exceedance of the 1-hour standard prior to this date was 141 ppb recorded September 4, 1998 at CAMS 58 in Camp Bullis. Also on June 24, 2002, the CAMS 23 monitor recorded an 8-hour average ozone reading of 110 ppb, an exceedance of the 8-hour average ozone NAAQS. The most recent 8-hour reading prior to this date above 100 ppb was a reading of 110 ppb recorded September 4, 1998 at CAMS 58 in Camp Bullis.

[2] U.S. Environmental Protection Agency, “Boundary Guidance on Air Quality Designations for the 8-Hour Ozone National Ambient Air Quality Standards (NAAQS or Standard.)” March 28, 2000. Available online: http://www.epa.gov/airlinks/boundary1.pdf

[3] Federal Register / Vol. 68, No. 105 / Monday, June 2, 2003 / Proposed Rules; 40 CFR Part 51; Proposed Rule To Implement the 8-Hour Ozone National Ambient Air Quality Standard; see "2. What Is the ‘Early Action Compact' for Implementing the 8-Hour Ozone NAAQS?", page 32859. Available online: http://www.epa.gov/fedrgstr/EPA-AIR/2003/June/Day-02/a13240.pdf

AACOG, the TCEQ, and the EPA, whom reviewed and approved the final results.

1.2 Planning Process

The AIR Committee is composed of several distinct committees: the AIR Executive, AIR Advisory, AIR Technical, and AIR Public Education committees. The mission of the AIR Committee is to facilitate the completion of the air quality studies, complete necessary planning activities, and develop a comprehensive emission reduction plan that will guide our region's actions to attain the 8-hour ozone NAAQS. In the planning effort required to maintain the Clean Air Plan for the San Antonio EAC region, the AIR Committee engages with local citizens, the EPA and the TCEQ. This Clean Air Plan is the continuation of years of effort and planning, which has been made possible through funding provided by the Legislature of the State of Texas.

Charged with oversight and coordination of the development of the Clean Air Plan, the AIR Executive Committee of AACOG is the responsible air quality planning committee under the Early Action Compact for the San Antonio region. The AIR Committees assess and report the region's progress at least every six months, with deliverables sent to TCEQ and the EPA. Public reporting of assessment and progress against milestones occurs at least once every six months during the regularly scheduled meetings (scheduled on a bi-monthly basis and open to the public) of the AIR Executive and AIR Advisory Committees of the AACOG.

Public participation being an integral part of the Clean Air Plan, various avenues must be provided to facilitate citizen access to the development process. Citizens in the region have three avenues they can utilize for participation: 1) AIR Committee meetings which are open to the public, 2) public meetings and Clean Air Plan Workshops, and 3) responding through the AACOG website. The AIR Executive Committee meetings satisfy the requirement in the EAC that planning meetings will be open to the public, with posted meeting times and locations. Every meeting of the AIR Executive and Advisory Committees is a public meeting, with notification of the meeting time and location posted as stipulated in the Texas Open Meetings Act. AACOG provides notice of each meeting to the Secretary of State for posting in the Texas Register, as well as notice to the County Clerk of Bexar County. In addition, AACOG posts a notification in the agency's main administrative offices in a place readily accessible to the general public at all times for at least 72 hours before the scheduled time of the meeting. (Although the AIR Executive and the AIR Advisory Committees are separate committees, they typically hold joint committee meetings every two months. In each case, the notification process is as described above.) Details regarding continuing public involvement are given in Chapter 2.2, Public Involvement Milestones.

1.3 Semi-Annual Report

As required by EAC guidance, areas that are participating in early voluntary 8-hour air quality plans must assess and report their progress in achieving EAC milestones in a regular, public process every six months. This document will fulfill the requirement for the fifth semi-annual progress report written for the San Antonio EAC.

The milestones in this report which are described in the EAC are:

- Completion & updates of emissions inventories as outlined in section b), Emissions Inventory;
- Completion & updates of modeling as outlined in section c), Modeling;
- Post-attainment demonstration and plan updates as outlined in section e), Maintenance for Growth;

- Continued public involvement in the planning process which will be conducted as outlined in section f), Public Involvement. This is in addition to the public reporting conducted at least once every six months, as outlined above.

Chapter 2 – Early Action Compact Milestones

The Early Action Compact (EAC) specifies milestone requirements and delivery dates based on the EAC Memorandum of Agreement (MOA).[4] The milestones are addressed in the sections that follow.

The EAC MOA specifies 1) completion and delivery of a Conceptual Model update by April 30, 2005 and 2) an Emissions Trend Analysis utilizing National Emissions Trends (NET) Emissions Inventories by September 30, 2005. AACOG staff performs the local 2002 NET Emissions Inventory, which is ongoing and will be the basis of the Emissions Trend Analysis update due in September.

2.1 Emissions Inventory Milestones

The ongoing analysis of emissions in the SAER is an essential element in the maintenance of the milestones of the Clean Air Plan. These analyses will be formalized in the Emission Trend Analysis as required by the EAC in September 2005.

2.1.1 2002 Emissions Inventory - Airport Emissions Update

Updates were made to lawn & garden and commercial non-road equipment for San Antonio International Airport (SAIA), private airports and other small airports. Local data, supplied by survey responses, contained equipment populations and usage rates for 2002. With the use of NONROAD 2004 Model developed emissions factors and the survey data, emissions were calculated for the 2002 emissions inventory and incorporated into the Emissions Trend Analysis.

In addition, updates were made to commercial and private aircraft and ground support equipment (GSE) emissions based on aircraft operations data. Emissions from airports were calculated using the Emission & Dispersion Modeling System version 4.2 (EDMS). All emission factors and estimation techniques used in EDMS are based on EPA approved methodologies. Data on aircraft flight activities was collected from both the "FAA/FPA Terminal Area Forecast" (TAF) software and "Airport IQ Data Center" internet site, which is a web-based flight activity tracking and reporting software for all U.S. airports. The information on local and itinerant aircraft activities gathered from these sources was then entered into the EDMS model to estimate the amount of pollutants attributed to aircraft activities. Table 2–1 contains the updated totals for the EAC region.

Table 2-1 2002 EI Updated Airport/Military Emissions Totals, Tons per Day

County	VOC	NOx	CO
Bexar	2.835	4.442	24.855
Comal	0.028	0.002	0.341
Guadalupe	0.080	0.022	0.521
Wilson	0.000	0.000	0.000
Total	2.863	4.466	25.717

2.1.2 Emissions Trend Analysis

The Emissions Trend Analysis utilizes local 1996, 1999, and 2002 National Emissions Trend (NET) Emission Inventories (EI's) and the projected emissions inventories of 2007 and 2012. A deliverable for this milestone is due to TCEQ and EPA by September 30, 2005. The VOC

[4] Chapter V. Early Action Compact Memorandum of Agreement (MOA); available online: http://www.aacog.com/cap/CAP2002.html#5

emissions for the EAC region are contained in Table 2–2; NOx emissions are contained in Table 2–3. These emissions include estimates for anthropogenic and biogenic sources.

Table 2-2 Total VOC Emissions by EAC County and EI Year

County	VOC (tons/weekday)				
	1996	1999	2002	2007	2012
Bexar	297.5	264.4	218.8	210.9	206.9
Comal	62.8	55.1	54.9	54.6	53.8
Guadalupe	56.3	52.6	58.6	58.0	57.6
Wilson	54.1	54.1	56.2	54.9	54.6
Total	470.7	426.2	388.5	378.4	373.0

Table 2-3 Total NOx Emissions by EAC County and EI Year

County	NOx (tons/weekday)				
	1996	1999	2002	2007	2012
Bexar	195.5	266.9	200.4	160.7	118.6
Comal	23.0	28.8	28.6	26.2	22.8
Guadalupe	19.3	25.1	22.8	20.9	18.0
Wilson	10.7	11.6	8.2	7.6	7.1
Total	248.5	332.3	260.1	215.5	166.5

2.2 Modeling Milestones

Performing on-going modeling updates ensures that planners have the quality modeling products required for air quality planning activities. In addition, if updates to the Conceptual Model support arguments for development of other episodes as necessary to fully represent the variety of situations that typically contribute to local ozone production in the region, new episode development will be undertaken. The following sections describe modeling updates conducted during the period of this report.

2.2.1 Update to the Conceptual Model

The "Conceptual Model Ozone Analysis of the San Antonio Region" was updated with ozone and meteorological data from 2004 and delivered to TCEQ and EPA by the deadline of April 30, 2005. The following information is a summary of the recent update; please reference the full document[5] for the complete analysis and historical data perspective. A conceptual model presents possible candidate episodes for photochemical modeling and assesses modeling desirability of the candidates. This is accomplished through analysis of meteorological conditions that contribute to high ozone concentrations and characteristics of ozone exceedance days in the San Antonio region.

2.2.3.1 Candidate Episodes for 2004

Regulatory ozone monitors in the San Antonio region recorded 8-hour ozone averages of 85 ppb or greater on seven days during the 2004 ozone season. The very first step in selecting a

[5] "Conceptual Model Ozone Analysis of the San Antonio Region," April 30, 2005, AACOG; http://www.aacog.com/naturalresources/cm/042705_ConcModel2004.pdf

high ozone episode for modeling purposes requires that the episode occur over a period of several days, with a minimum of two exceedance days. If these criteria are met, the high ozone episode becomes a candidate for further analysis. The following table groups individual exceedance days together, identifies episodes, and notes what type of candidate the set may represent.

Table 2–4 2004 Candidate Modeling Episodes

Date	Day of Week	1 Hour	8 Hour	Multiple Exceedance Days	Notes
7/19/04	M	99	87	July 19-20	Weak candidate (< 3 exceedance days)
7/20/04	Tu	101	89		
8/4/04	W	103	86	August 4-9	Potential candidate
8/5/04	Th	112	85		
8/9/04	M	95	86		
9/10/04	Tu	109	95	--	Not possible candidate
9/29/04	Su	105	91	--	Not possible candidate

Table 2-4 indicates that the SAER recorded seven ozone exceedances at regulatory monitors in 2004: July 19, July 20, August 4, August 5, August 9, September 10, and September 29, 2004. Again, a prospective candidate episode is identified if high ozone levels are recorded over a period of several consecutive days. The high ozone dates in September 2004 did not occur over a course of several days but were isolated occurrences, not conducive to a modeling episode. In consideration of trends, Figure 2-1 illustrates the ozone season monthly trends for ozone exceedance days, over the timeframe of 1995 – 2004, measured in San Antonio. During these years, there were 7.4 ozone exceedances on average per season.

2.2.3.2 Analytical Results of 2004 Data

Daily meteorological factors for 2004 were incorporated into the 1997-2003 data sets and analyzed for trends over the years 1997-2004. Compared with historical trends, no significant discrepancies were noted in temperature trends, wind trends, precipitation trends, or solar radiation trends for the exceedance days identified in table 2-4. All observations of the 2004 data were consistent with the data of previous years.

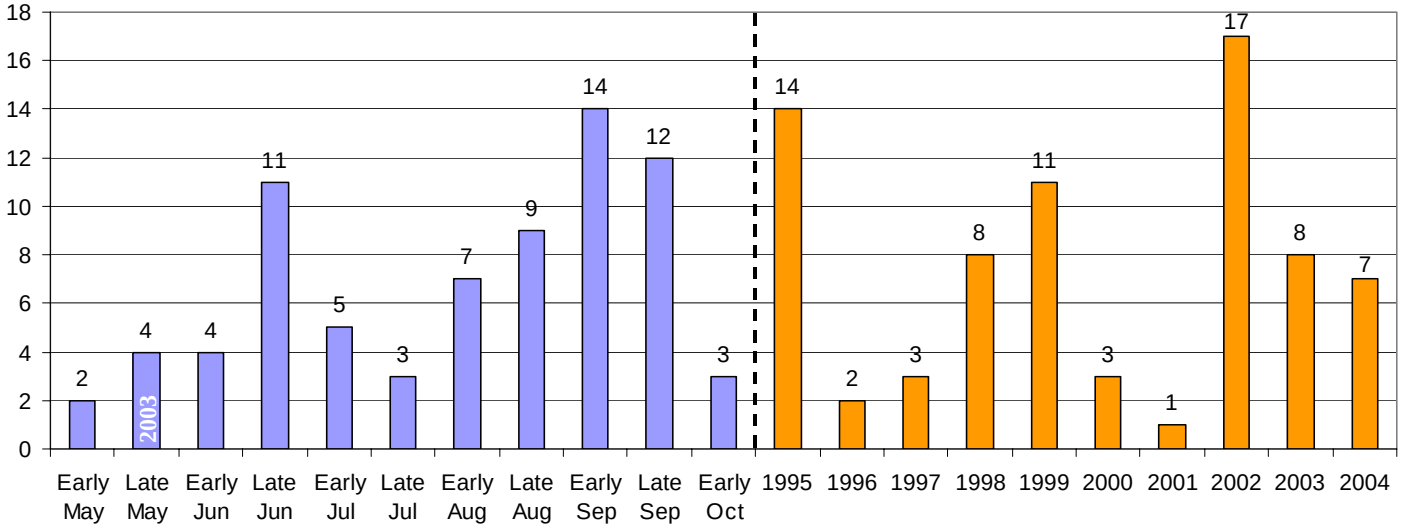
In addition, the Particulate Matter (PM 2.5) section analyzing the possible correlation with ozone exceedance days was revised in the April 30, 2005 delivered report. It was stated in the conceptual model that it remained uncertain, at this time, to what extent and under what conditions PM 2.5 has an effect, directly or indirectly, on ozone levels or duration of high ozone levels.

The August dates of the 2004 candidate episodes fall within the “Early August” to “Late September” timeframe of table 2-1, following the trends that have been observed in previous years. Based on conceptual model analysis detailed in the Conceptual Model updated in April and discussed above, the 2004 August candidate ranks as one of the better choices. The July candidate is a weak choice. The episode has only two exceedance days and does not fall within a seasonal peak for the San Antonio area, June & August-September. In Figure 2–1, these exceedances are two of the three “Late July” occurrences.

Since photochemical models are used to test control strategies for reducing ozone precursors, it is important for the episode modeled to occur during times which are normally conducive to ozone exceedances. For this reason, the July candidate would not be the best choice. However, the analysis of the conceptual model is a “first step” in the choosing of a new episode to model and does not take into account other factors that go into the choosing of a new

modeling episode such as cost, quality/quantity/availability of data, and/or partnerships, among others.

Figure 2–1 Historical Trends in Ozone Exceedances (Daily High 8-hr Ave. ≥ 85 ppb) in the SA Region, 1995–2004. "Early" = 1st – 15th of month, "Late" = 16th – end of Month.



*Note the "Late May" column is labeled with "2003;" all four exceedances in this period occurred uniquely in 2003 and may be anomalous.

AACOG is participating[6] in the Texas Air Quality Study II (TexAQS II). This study focuses on ozone, PM, and haze in eastern Texas and operates from spring 2005 through fall 2006. It is anticipated that, if a candidate ozone episode occurs during either the 2005 or 2006 ozone seasons, air quality modelers will be able to use the modeling data gathered during TexAQS II to refine and perfect a new photochemical model for the San Antonio region.

Following the 2005 ozone season, local air quality planners, together with EPA and TCEQ, will review new modeling guidelines published by the EPA, TexAQS II data and the Conceptual Model to determine if development of another episode is advised for the San Antonio region.

2.3 Control Strategy Development Milestones

In addition to control measures from which SIP credit can be obtained, ***voluntary strategies*** are considered and implemented in the San Antonio region. These measures include programs such as Commute Solutions, School Pool, Clean Cities, and employer promoted programs.

2.3.1 Clean Cities

The Clean Cities coordinator position at AACOG was filled in March. The Clean Cities program, sponsored by the US Department of Energy (US DOE), has traditionally promoted the use of alternative fuels and alternative fuel vehicles since its inception in 1993. In 2004, Clean Cities expanded its focus to include the promotion of fuel blends, fuel economy, hybrid vehicles, and idle-reduction technologies. Alternative fuel use has been popular among large fleets in the

[6] AACOG and Austin's Capital Area Planning Council are providing funding this summer to establish and operate a meteorological profiler at the New Braunfels site of the National Weather Service Station. This profiler acts both as support for the TexAQS II study, but will provide critical meteorological information if another photochemical model is developed within this timeframe for our region.

San Antonio region. The most widely used alternative fuel in the San Antonio Early Action Compact Region is propane.

Staff attended the Clean Cities Stakeholder meetings held in March and May 2005. At the March meeting the State Energy Conservation Office (SECO) discussed the availability of funds for State Energy Projects made available from the US DOE. Five proposals were submitted by SECO on the behalf of several organizations within the San Antonio EAC Region, including the AACOG submittal for Clean Cities Coalition Support funds to sustain the Clean Cities program in the San Antonio region. During the May Stakeholder meeting, presentations were provided for the Texas Low Emission Diesel (TxLED) and Ultra Low Sulfur Diesel (ULSD), since their implementation is impending in the near future and will affect regional fleets. In addition, the AACOG Clean Cities coordinator attended the National Clean Cities Conference in Palm Springs, CA from April 30th to May 4th.

2.3.2 Texas Emission Reduction Plan

AACOG staff continues to vigorously promote the Texas Emissions Reduction Plan (TERP), created in 2001 by Texas Senate Bill 5. When finalizing the local revisions to the SIP, in compliance with the EAC, local elected officials requested a 2-ton per day reduction of NOx emissions in the 4-county SAER through local TERP projects. On January 19, 2005, a list–to–date[7] was posted by TCEQ for agencies and companies in the San Antonio Area that were awarded contracts for funding FY 02 through FY 04 projects, Appendix A. The list posted was for signed contracts as of January 19th for FY02 – FY04 projects. Since this list was released, it is anticipated that additional contracts have been signed or will be signed for FY02 – FY04 project funding. TCEQ plans to post updated lists once per year, thus additional grants and corresponding tpd NOx reduction will appear on the updated list to be posted next year. The current list contains the following organizations and pledged tpd NOx reduction for the FY02 – FY04 period:

✔ Via Metropolitan Transit	- 0.4460
✔ City Public Service	- 0.0130
✔ Alamo Gulf Coast Railroad	- 0.0052
✔ Timms Trucking & Excavating	- 0.0105
✔ Martin Marietta Materials Southwest	- 0.0487
✔ Dean Word Company	- 0.0242
✔ Vulcan Construction Materials Lp	- 0.1619
✔ Agueros Trucking	- 0.0019
⇒ TOTAL Projected NOx Reductions	= 0.7114

Remaining NOx Reductions to meet the targeted 2 tpd NOx reduction:

2 - 0.7114 = **1.2886** (still needed)

The FY 2005 1st Round List of Applicants Recommended for Funding for the Emission Reduction Incentive Grants[8] has been published also, Appendix A, and is current as of May 20, 2005. These contracts are recommended for selection and it is anticipated that all recommended applicants will be awarded grants. The TCEQ is currently accepting 2nd round grant applications; the deadline is July 1, 2005. The following is a list of the organizations appearing on the recommended list for the 1st round FY05 grants and projected tpd NOx reduction under TERP:

- Ray Faris Inc - 0.0028
- Hunter Demolition & Wrecking Corporation - 0.0079
- Martin Marietta Materials Southwest Ltd - 0.1544
- Wm Greer Construction Company Inc - 0.0013

[7] Available online: http://www.tnrcc.state.tx.us/oprd/sips/area_listing.pdf
[8] Available online: : http://www.tnrcc.state.tx.us/oprd/sips/2005_1st_round_selections.pdf

➢ Cibolo Waste Inc	- 0.0115
➢ Dean Word Company Ltd	- 0.0038
➢ City Public Service Of San Antonio	- 0.0087
➢ Helotes Materials	- 0.0428
➢ Dean Word Company Ltd	- 0.0059
➢ Capitol Aggregates	- 0.0760
➢ Dean Word Company Ltd	- 0.0051
➢ Dean Word Company Ltd	- 0.0024
➢ Alamo Backhoe Services Inc	- 0.0005
➢ Comal Auto Transport	- 0.0181
➢ Rodco Trucking	- 0.0176
➢ Exas Waste Systems Inc	- 0.2599
➢ Idleaire Technologies Corporation	- 0.2535
➢ B H Trujillo & Sons Transportation	- 0.0144
➢ Block Distributing Company	- 0.0122
➢ Bfi Waste Services Of Texas Lp	- 0.0353
➢ Comal Independent School District	- 0.0079
➢ David Friesenhahn	- 0.0654
➢ Dean Word Company Ltd	- 0.0100
➢ San Antonio Constructors Ltd	- 0.0069
⇒ TOTAL Projected NOX Reductions	= 1.0243

If these contracts are signed, then the NOx Reductions remaining to meet the targeted 2 tpd NOx reduction are:

2 – (0.7114 + 1.0243)
= **0.2643 tpd**

2.3.3 Alamo Clean Air Partnership

The Alamo Clean Air Partnership is a new program begun by the AACOG in late 2004. The project is an aggressive program, actively seeking partners to commit to voluntary emission reduction efforts implemented within the workplace or by an organization's employees. The marketing program initially targets the large emitters in the region, those with large numbers of employees or fleets, or large point source emitters. AACOG collaborates with other organizations that can help market ACAP or provide technical assistance. One such organization, the Greater San Antonio Chamber of Commerce, announced the adoption of a position statement supporting the ACAP program in May[9]. This position statement is located in Appendix C of this report. Three reasons were given for the adoption of the chamber's support: recognition given to participants for efforts towards air quality, some ACAP programs will save money for the participants, and cities in attainment of the national air quality standards are more attractive to new business, as well as business expansions. Some of the key elements of this program are:

- MISSION: to improve the health and quality of life of everyone in the San Antonio region by reducing air pollution and making the air cleaner to breathe.
- METHOD: provide outreach, education, and technical assistance to polluting facilities in order to implement strategi6es to reduce emissions.
- GOAL: 10% reduction per company between 2005 and 2007.
- EMISSIONS TO REDUCE:
  - Company owned or leased vehicles and equipment
  - Site and facility maintenance activities
  - Workplace (employee) commuting
  - Industrial/manufacturing processes

[9] Greater San Antonio Chamber of Commerce; May, 2005. "The Greater San Antonio Chamber of Commerce Action Highlights for Week Ending May 27, 2005: SA's air quality always an issue." Statement of policy is available online: http://www.sachamber.org/today/images/2005_0527_ACAP_Ps.PDF

- Other Sources
- COMPANY/AGENCY BENEFIT: recognition through media and other outlets for their environmental stewardship and awards program

Completed ACAP Tasks and Projects

AACOG staff developed a marketing plan to target specific organizations determined to have the largest impact on air quality in the area, either because they have a large number of employees (work/home commuting vehicles), large vehicle fleets, or by being a point source emitter. In addition to this "targeted" list, the program can encompass smaller businesses/agencies/organizations, also. A toolkit is available to those interested with step-by-step instructions on how to become a partner. The 10% reduction the partners will strive to achieve is determined through the use of a software tool and is specific for each partner.

In addition to the marketing plan and toolkit, ACAP information is provided on the AACOG website, http://www.aacog.com. You can access this information by clicking on the "Air Quality" link and then on the ACAP logo found on the left side of the Air Quality page or by using the ACAP page URL (http://www.aacog.com/acap). This website provides the mission, goals, description, and much more information on the ACAP program for easy access and referral.

ACAP Toolkit

The toolkit offers a quality presentation of informative materials available to prospective partners, steps to becoming a partner, and valuable contact information for those seeking additional information or assistance. The toolkit includes:

- "How to Become an Alamo Clean Air Partner in 5 Easy Steps" Instruction Manual
- "Emissions Reduction Strategies and Programs for Businesses" Manual
- Recognition and Awards Program Information
- CD Containing the Emissions Profiler/Emissions Calculator software

Software Tool

The software tool is an Emissions Profiler/Emissions Reduction Calculator. The prospective partners enter requested data into a spreadsheet that is used to estimate the current emissions from company-owned vehicles, commutes by employees, energy usage, and other. In addition, the software tool helps partners identify measures they can implement to reduce their emissions, and quantifies the results of implementing such measures. By manipulating the various options, they can determine methods to reduce their emissions and achieve the 10% goal. A sample of the use of this software is provided in the ACAP toolkit.

Outreach Efforts

Letters of invitation have been mailed to targeted partner prospects, inviting them to view the toolkit or receive a presentation customized to their needs on entering into this partnership. Specific information on the number of toolkits distributed, presentations given to date, and other outreach materials distributed are located in Appendix B. The letters of invitation will be followed up by phone calls, where additional information/materials can be provided to interested parties.

Upcoming ACAP projects include:

- Seek support of other regional Chambers of Commerce
- Work with trade groups, such as the San Antonio Manufacturers Association to promote partnerships
- Submit news releases and service announcements regarding accomplishments by partners

New Alamo Clean Air Partner

H.E.B. became the first Alamo Clean Air Partner on June 21, 2005 and will receive formal acknowledgement at the August meeting of the AIR Executive/Advisory Committees. The grocery chain is considering, or will continue, measures of emission reduction through efforts such as:

- ✓ Alternative fuels
- ✓ Idle reduction
- ✓ Conservation
- ✓ Energy efficiency

2.4 Maintenance for Growth Milestones

Assurance of the air quality situation in Maintenance Year 2012 is a vital aspect of the ongoing planning activities by stakeholders in the EAC for the San Antonio region. Accomplishing this milestone is essential and would indicate that the efforts of the stakeholders in the SAER were successful.

2.4.1 Updating the Planning Process

Various stages of planning and verification must be performed on a continual basis to ensure timely emission reductions for the region to maintain air quality standards. The impacts of new point source related emissions, economic and population growth, and the implementation of new control strategies are evaluated during the air quality modeling process. In the development of the State Implementation Plan for the San Antonio Early Action Compact Region, projected growth of emission sources in the area was integral in the air quality planning process. No further update is required at this time.

2.4.2 New Strategy Requirements

The ongoing reviews of growth, including the updates and the continuing planning processes reported in the Semi-Annual Updates will provide air quality planners the insight necessary to guide efforts to attain the 8-hour standard up to 2012. The extensive clean air strategy modeling performed by AACOG staff will facilitate the planning if the continuous review process indicates additional measures should be considered.

As prescribed in the Early Action Compact protocol, if at any time the review of growth demonstrates that adopted control measures are inadequate to address growth in emissions, additional measures will be added to the plan. If analysis indicates that additional control measures are necessary to reach attainment by 2007 through a review of growth, they will be verified using the current attainment demonstration photochemical model and adopted according to the public review process overseen by the Air Improvement Resources Committee. If a review of growth indicates additional control measures are necessary to maintain attainment through 2012, AACOG staff will work with the TCEQ and EPA to analyze control strategies based on then-currently available photochemical models. Appropriate control strategies will be adopted according to the public review process overseen by the Air Improvement Resources Committee.

To date, as illustrated in the Trend Analysis section above, review of growth and emissions inventory patterns do not support a call for additional measures enacted locally.

2.5 Public Involvement Milestones

Educating the public about the importance of the region's air quality continues to be a crucial effort for this Clean Air Plan. Outreach and education efforts continue within the SAER, often through partnerships with other governmental entities and industrial leaders in the area. As the

Clean Air Plan is developed, citizens and citizen groups are given the opportunity to be involved in the Clean Air Plan development process.

2.5.1 Media

Local media efforts have played an important role in notifying the public about the development of the Clean Air Plan as well as in educating the public on the state of the region's air quality and how air quality affects respiratory health. Television, radio, newspapers, and websites have been avenues through which information about the Clean Air Plan and the four county's air quality has been dispersed. Press releases and public service announcements have been and will continue to be utilized to educate the public.

From January through June 2005, there were 15 weather forecast television pieces that included Air Quality Health Alerts day announcements, 2 television pieces, 7 radio pieces, 21 weather forecast radio pieces that included Air Quality Health Alerts day announcements, and 5 newspaper/Internet pieces regarding the Clean Air Plan and air quality issues. During this time, there were 3 press releases and public service announcements were confirmed to have aired 8 radio stations (KSMG-FM, KCYY-FM, KELZ-FM, Kiss-FM, KKYX-AM, KONO-FM, KTSA-AM, WOAI News 1200 AM).

2.5.2 Other Outreach Efforts

Non-media related outreach efforts continue. Between January and June 2005, six governmental, private, and/or civic group presentations have been provided. In the same time period, AACOG staff provided presentations to nine area schools/ universities and one independent school district (ISD).

Whenever possible, AACOG coordinates and/or participates in public events; such events allow AACOG staff to educate citizens on how everyday actions contribute to air pollution and that alternate methods of doing the same tasks can help reduce emissions. During this time period, AACOG participated in twenty events, hosting one of these. Additionally, AACOG maintains an air quality website, which is updated weekly and provides a wealth of information on air quality issues, Appendix D.

Traditionally, AACOG has hosted an event near the beginning of April called "Ozone Season Kick-off." Just as the Ozone Action Days are now called Air Quality Health Alert Days to put emphasis on air quality and one's health, the name of this event was changed to the Air Quality Health Fair. It was held on April 9th at the San Pedro Springs Park and an estimated 900 folks attended, receiving information from over 25 organizations.

AACOG is promoting and coordinating the Adopt-A-School Bus program, which is a cooperative partnership established to aid non-attainment area school districts in replacing their aging diesel school buses with new "clean fuel" buses. This goal will be achieved by educating school districts and corporations about the benefits of replacing older diesel buses with lower emission "clean fuel" buses. Efforts at reducing the emission capacity of school buses could also involve the combination of replacing and retrofitting buses with new technology to achieve NO_x and PM reductions and the possible use of low-sulfur fuel.

2.5.3 Public Meetings/Clean Air Plan Workshops

In accordance with the EAC, the public has opportunities to participate with the ongoing development of the Clean Air plan in order to familiarize themselves with the process and goals of the project. The regularly scheduled bi-monthly meetings of the AIR Executive Committee, the planning committee for air quality planning under the Early Action Compact in the San Antonio region, are open to the public and always have a Citizens to Be Heard agenda item.

Additional exposure to the project is expressly provided to the public through other meetings and workshops. This is achieved through the hosting of Clean Air Plan Workshops, which are called to discuss special topics with dates and times based on feedback from the public and scheduled typically on workweek evenings alternating with Saturday mornings. These workshops, in addition to all the regularly scheduled Air Improvement Resources (AIR) Executive/Advisory Committee meetings, provide a solid basis for public education, process access and comment.

2.6 Federal Compliance Milestone

The entities whose representatives signed the local Early Action Compact on December 9, 2002 committed their entities to specific tasks and timelines. One such signatory party, the US Environmental Protection Agency (EPA), committed to "move quickly to review and approve completed plans by no later than nine months after submission of the SIP revision by the state" where the state was required to complete, adopt, and submit the SIP revisions to the EPA by December 31, 2004.[10] This section describes the status of required federal actions during the timeframe of this report, January-June 2005.

On May 23, 2005, the Federal Register publication, "Approval and Promulgation of Air Quality Implementation Plans; Texas; Attainment Demonstration for the San Antonio Early Action Compact Area," appeared and is now available online.[11] Publication of the final rule represents the final step in the formal process of approving the initial Clean Air Plan for the San Antonio region, that is, the initial local revisions to the State Implementation Plan developed under and satisfying the requirements of the San Antonio regional Early Action Compact.

VOC Rules

Several of the control strategies requested by local elected officials as part of the SIP development process required revisions to existing Texas state rules,[12] such as the Texas Administrative Code (TAC), and represented revisions to the Texas SIP as well. These are the VOC rules in the EAC strategy request list: the Stage I rule and the Degreasing Equipment rule. In addition, The EPA was in the process of approving the Texas stringent ≤ 23.5% VOC content by weight windshield washer fluid standard and portable gas can requirements for containers or spouts manufactured on or after December 31, 2004. The EPA took Direct Final Action to approve these SIP revisions on March 29th; there were no challenges to the action, and so these SIP revisions have been approved. The revised SIP (containing these revisions) was effective as of May 31, 2005.[13] This approval makes these revised regulations Federally enforceable, enabling the prosecution of violators.

TERP

In this case of the Texas Emission Reduction Plan (TERP), the TERP rules did not already exist in the TAC or as part of the Texas SIP. The State adopted TERP as revisions to the TAC on

[10] AACOG, "Clean Air Plan for the San Antonio Metropolitan Statistical Area," Chapter V. Available online: http://www.aacog.com/cap/CAP2002.html#5. Note that the EPA further clarified the deliverable date of September 30, 2005 as the date for finalization of consideration by the EPA of the SIPs developed under EACs. See page 43 of 96 of the Final designations rule Preamble, online as http://www.epa.gov/ozonedesignations/nfr41604.pdf

[11] http://a257.g.akamaitech.net/7/257/2422/01jan20051800/edocket.access.gpo.gov/2005/pdf/05-10193.pdf

[12] Texas Administrative Code or TAC: online as http://info.sos.state.tx.us/pls/pub/readtac$ext.ViewTAC

[13] Federal Register (FR) publication "Approval and Promulgation of Air Quality Implementation Plans; Texas; Revisions To Control Volatile Organic Compound Emissions," March 29, 2005. Available through the FR publication index for Environmental Documents on the EPA website (actual FR citation is 70 FR 15769, which indicates volume 70, beginning on page 15769) : http://www.epa.gov/fedrgstr/EPA-AIR/2005/March/Day-29/a6196.htm

January 28, 2004, and submitted the revisions to EPA as SIP revisions on March 3, 2004 (source: FR publication noted here). In some contrast to the Direct Final Action above for the VOC rules, the EPA published a Proposed Rule to approve revisions to the Texas SIP in order to incorporate TERP into the SIP. The Proposed Rule for TERP was published in the FR on May 12, 2005, beginning a 30-day comment period.

In the event the EPA receives any adverse comments within the 30-day period, responses to those comments will be addressed in the final rule. If no adverse comments are received, a final rule will be published and the TERP will be effective 30 days after the rule is published. If comments require additional work from either the State or EPA, it may take a longer.[14] This will be the same procedure as the attainment demonstrations for the EAC areas - EPA proposes approval and waits for comments. Then EPA responds to comments (if any) in the final rulemaking.

TERMs

The Transportation Emission Reduction Measures (TERMs), Appendix E, are the only remaining control strategies to begin the approval process. Approval of the Proposed Rule (internal-to-EPA) for both the Attainment Demonstration and the TERMs, was signed by the Regional Administrator for EPA Region 6 on May 13, 2005. Typically, on the day a proposed rule is published in the Federal Register, the EPA publishes an electronic docket (Edocket) as well. The Edocket in Region 6 began in 2005 and contains all relevant support materials for recent publications.

All EPA materials for the "Attainment Demonstration for the San Antonio Early Action Compact Area" docket are available thru EPA's Edocket (http://docket.epa.gov/edkpub/index.jsp):

- EPA's Edocket for the San Antonio EAC SIP materials (note that the San Antonio EAC area rulemaking package is RME docket R06-OAR-2005-TX-0010):
  First, visit the EPA's "Regional Materials in EDOCKET" page at:
  http://docket.epa.gov/rmepub/index.jsp and then click on the "2. Quick Search" under the "How to Use RME?" banner. When the new page opens, paste the docket number (R06-OAR-2005-TX-0010) into the search box. Once the docket appears on the screen, click on the docket ID (left column), which will take you to the list of items within the docket.
- EPA's Federal Register Environmental Documents Index:
  http://www.epa.gov/fedrgstr/index.html

[14] FR publication of "Approval and Promulgation of Implementation Plans; State of Texas; Control of Air Pollution From Motor Vehicles, Mobile Source Incentive Programs," May 12, 2005. Available on the EPA website: http://www.epa.gov/fedrgstr/EPA-AIR/2005/May/Day-12/a9480.htm

Chapter 3 – Conclusion

The San Antonio EAC region has successfully maintained steady progress in accomplishing EAC milestones and ensuring proper development of the Clean Air Plan. Completion of the milestones included appropriate participation of stakeholders in the air quality planning process, ongoing development and research of potential control strategies (to include voluntary strategies), provisions for public participation in the development of the Clean Air Plan, and continued development of technical activities and testing of model performance. Accomplishing these milestones allowed efficient development of the Attainment Demonstration and enhanced confidence in the validity of its technical data.

The San Antonio EAC region remains compliant with the prescribed milestones as given by the *Protocol for Early Action Compacts Designed to Achieve and Maintain the 8-Hour Ozone Standard.*[15] The region will continue to comply with the milestones as required.

[15] The "Protocol for Early Action Compacts Designed to Achieve and Maintain the 8-Hour Ozone Standard" is available online as http://www.epa.gov/ttn/naaqs/ozone/eac/20020619_eac_protocol.pdf

APPENDIX A – SAN ANTONIO AREA TERP AWARDS

TEXAS COMMISSION ON ENVIRONMENTAL PLANNING
TEXAS EMISSIONS REDUCTION PLAN (TERP)
EMISSIONS REDUCTION INCENTIVE GRANTS
GRANTS TO DATE (sort by area)
January 19, 2005

Projects Selected for Funding to Date
FY02 through FY04 Projects

http://www.tnrcc.state.tx.us/oprd/sips/area_listing.xls

APPNO	APPLICANT	CONTRACT STATUS	PRIMARY AREA	GRANT AMOUNT	PROJECTED NOx REDUCTIONS (tons)	PROJECTED TONS PER DAY OF NOx REDUCTION IN 2007 (tpd)	PROJECTED COST PER TON OF NOx REDUCED	PROJECT TYPE	PROJECT LIFE	EMISSION SOURCE	NO. OF ACTIVITIES	FUEL TYPE	PROJECT DESCRIPTION	ORG**
20041006	VIA METROPOLITAN TRANSIT	OPEN	San Antonio	$5,046,029.42	892.0900	0.4460	$5,656	RETRO-FIT/ADD-ON	8	ON-ROAD	218	diesel	1*	G
20041063	CITY PUBLIC SERVICE	OPEN	San Antonio	$70,358.00	16.2328	0.0130	$4,334	RE-POWER	5	NON-ROAD	1	Diesel	Re-power bulldozer	G
20042064	ALAMO GULF COAST RAILROAD	OPEN	San Antonio	$34,000.00	9.4600	0.0052	$3,594	ON-VEHICLE INFRASTRUCTURE	5	LOCOMOTIVE	1	ELECTRIC	Switcher locomotive	B
20042068	TIMMS TRUCKING & EXCAVATING	OPEN	San Antonio	$61,867.00	15.7223	0.0105	$3,935	RE-POWER	6	NON-ROAD	2	DIESEL	Repower of 2 Loaders	B
20042358	MARTIN MARIETTA MATERIALS SOUTHWEST	OPEN	San Antonio	$418,606.00	72.9977	0.0487	$5,735	REPLACEMENT	6	NON-ROAD	4	DIESEL	5*	B
20042393	DEAN WORD COMPANY	OPEN	San Antonio	$120,000.00	30.2600	0.0242	$3,966	REPLACEMENT, RE-POWER	5	STATIONARY	2	DIESEL	6*	B
20042171b	VULCAN CONSTRUCTION MATERIALS LP	OPEN	San Antonio	$1,839,979.30	283.3087	0.1619	$6,495	REPLACEMENT	7	NON-ROAD	17	DIESEL	7*	B
004SB100	AGUEROS TRUCKING	OPEN	San Antonio	$38,500.00	3.2792	0.0019	$11,741	REPLACEMENT	7	ON-ROAD	1	DIESEL	8*	B

*: EGR system w/particulate filter - contract includes testing requirements, as system not yet verified. Also, includes use of TXLED.
*: Replacement of 3 loaders and 1 excavator
*: Replacement of 1 stationary electric generator set & 1 fan w/2 motors
*: 10 REPOWER ACTIVITIES: 20 REPLACEMENT ACTIVITIES - DFW TONS ARE 238.0540; SAT TONS ARE 283.3087
*: REPLACEMENT OF ONROAD HEAVY DUTY TRUCK

APPENDIX B – ACAP MARKETING EFFORTS

ACAP Marketing Efforts (01/05 - 06/05)

Efforts through June 2005

1. Contacts and Mail-outs

Type of Outreach	Subject	Contact Persons & Organizations Involved	Date	Target Audience
Distribution (60 flyers)	Chamber Meeting	Al Notzon, AACOG Patty Classy - Greater SA CofC an	4/11/2005	Chamber Members
Mail-out (80 & 30 letters)	ACAP letters of invitation	Brenda Williams, AACOG	4/19/2005 4/22/2005	Targeted companies
Mail-out (150 hardcopies)	Road Map flyer	Brenda Williams, AACOG Patty Classy - Greater SA Chamber	4/29/2005	Chamber Members
Mail-out (139 letters)	ACAP letters of invitation	Brenda Williams, AACOG	6/6/2005	Targeted companies

2. News Paper, Radio, Television, or Internet

Type of Outreach	Subject	Contact Persons & Organizations Involved	Date	Target Audience
Advertisement	SAMA directory	Alison Young, AACOG Debbie Santos, SAMA	1/3/2005	SA Manufacturer's Assoc. Members
Article (with link to ACAP web site)	AACOG Newsletter	Alison Young, AACOG Tiffany Pickens, AACOG	1/3/2005	AACOG Staff, Member Governments, & Others

3. Governmental, Civic, or Private: Group Presentations & Toolkit Distribution

Type of Outreach	Subject	Contact Persons & Organizations Involved	Date	Target Audience
Meeting	Discuss testing software and participation	Brenda Williams, Alison Young & Steven Smeltzer, AACOG Debra Engler, Dan Titerle, & Ken Beasley, SAWS	1/5/2005	SAWS Contact persons
Status Report	ACAP program	Brenda Williams, AACOG Gerry Wolfe & Darrell Powell, TCEQ Mary-Jo Rowan, SECO	2/3/2005	TCEQ & SECO Contact persons
Distribution (for review)	Draft Toolkit	Brenda Williams & Alison Young, AACOG Debra Engler, SAWS	2/8/2005	SAWS Contact person

3. Governmental, Civic, or Private: Group Presentations & Toolkit Distribution (continued)				
Presentation	Marketing ACAP program	Brenda Williams & Alison Young, AACOG Brian Skrobarcek, Environmental Affairs Coordinator at Standard Aero	2/8/2005	Standard Aero (host company) and Lockheed Martin – approximately 15 people
Presentation	Corporate Recycling Council Meeting	Brenda Williams, AACOG	3/15/2005	Council members (approx 12 attendees)
Presentation	Clean Cities Coalition Meeting	Brenda Williams, AACOG Isabel Chacon, AACOG	3/18/2005	Coalition members
Meeting	Possible participation in ACAP	Brenda Williams, AACOG Bill Savarino, Tour Andover Controls	4/5/2005	Tour Andover Controls contact person
Distribution	Toolkit	Alison Young, AACOG Liza Meyer, COSA	4/5/2005	City of San Antonio
Meeting	Assistance with Car Care Maintenance workshop/ Toolkit	Brenda Williams & Isabel Chacon, AACOG Mary-Jo Rowan, SECO	4/12/2005	contact
Meeting	Emission reduction measures (propane forklifts) & participate in ACAP	Peter Bella & Isabel Chacon, AACOG Brenton Baker, SAIA Liza Meyer, COSA Heather Ball, Railroad Commission of TX	4/21/2005	SA International Airport Staff and COSA
Meeting	Follow-up - toolkit & assistance for additional presentations, etc.	Brenda Williams, AACOG Brian Skrobarcek – Standard Aero	4/26/2005	contact
Distribution - Toolkit	Post AIRCo meeting activity	Brenda Williams, AACOG Doug Peck, VIA Earl Steward, NEISD Pete Donohoe, Holt	4/27/2005	Listed contact persons
Presentation & Dist. - (100 flyers)	AACOG Staff Meeting	Brenda Williams, AACOG	4/29/2005	AACOG Staff
Presentation & Distribution - Toolkit	ACAP	Brenda Williams & Isabel Chacon, AACOG Theresa Hahn, Randolph AFB	5/6/2005	Randolph AFB staff
Distribution	ACAP Toolkit	Brenda Williams, AACOG Renee Green, Bexar County	5/11/2005	contact

3. Governmental, Civic, or Private: Group Presentations & Toolkit Distribution (continued)				
Distribution	ACAP Toolkit	Brenda Williams, AACOG Cyndi Levesque, CPS Energy	5/11/2005	contact
Presentation & Distribution	ACAP Program / ACAP Toolkit	Brenda Williams, AACOG Bruce Boyer, Lynn Lommar, & Kathleen Kruger, City of New Braunfels	5/13/2005	contacts
Distribution	ACAP Toolkit	Brenda Williams, AACOG Melanie Ritsema, SA Met Health	5/17/2005	contact
Distribution	ACAP Toolkit	Brenda Williams, AACOG Ken Zigrang, TxDOT	5/17/2005	contact
Distribution	ACAP CD	Brenda Williams, AACOG Tom Hornseth, Comal County	5/18/2005	contact
Distribution	ACAP Toolkit	Brenda Williams, AACOG Debrah Walden, Martin Marietta	5/23/2005	contact
Presentation & Distribution	ACAP Program / ACAP Toolkit	Brenda Williams, AACOG Reggie Wolf, Raba-Kistner	5/24/2005	contact
Distribution	ACAP Toolkit	Brenda Williams, AACOG John Zachry, H.B. Zachry	6/2/2005	contact
Distribution	ACAP Toolkit	Brenda Williams, AACOG Susan Ghertner, HEB	6/2/2005	contact
Distribution	ACAP Toolkit	Brenda Williams, AACOG Barbara Gentry, USAA	6/3/2005	contact
Distribution	ACAP Toolkit	Brenda Williams, AACOG Norm Renfro, Valero	6/3/2005	contact
Distribution	ACAP Toolkit	Brenda Williams, AACOG Jerry Fuentes, CBS	6/6/2005	contact
Distribution	ACAP Toolkit	Brenda Williams, AACOG Billy Gibbs, Alamo Concrete Products	6/13/2005	contact

4. Events & Public Meetings

Presentation	Marketing ACAP program	Al Notzon, AACOG Peter Bella, AACOG	2/15/2005	Geater SA Chamber AQ Task Force
Presentation	AIR Technical Committee	Brenda Williams, AACOG	3/14/2005	Committee members and others
Distribution (30 flyers)	Work Source TradeShow	Susan Lodge, AACOG	3/31/2005	Local Employers
Distributed (225 brochures)	Air Quality Health Fair	Alison Young, AACOG Brenda Williams, AACOG	4/9/2005	General Public
Distributed (75 brochures)	AWMA Conference	Alison Young, AACOG	4/11/2005	Air and Waste Management Assoc. members
Status Report	AIR Technical Committee	Brenda Williams, AACOG	4/11/2005	Committee members and others
Distribution (250 flyers)	Earth Day at KellyUSA	Brenda Williams, AACOG	4/14/2005	General Public
Distribution	ACAP Toolkit	Brenda Williams, AACOG Brian Skrobarcek, Standard Aero	4/14/2005	contact
Distribution	ACAP and AQHA Toolkits	Brenda Williams, AACOG Cindy Ward, Lockheed Martin	4/14/2005	contact
Presentation	Preparation for voting on Statement of Support of ACAP	Al Notzon, AACOG Peter Bella, AACOG	4/19/2005	Greater SA Chamber of Commerce board members
Status Report	AIR Executive/Advisory Committee	Brenda Williams, AACOG	4/27/2005	Committee members and others
Table - ACAP; Distribution - marketing materials	SAMA Tradefair	Isabel Chacon, AACOG Debbie Santos, SAMA	5/12/2005	SAMA members, other employers, & Public

APPENDIX C – CHAMBER POSITION STATEMENT

TO: **BOARD OF DIRECTORS**

FROM: **EXECUTIVE COMMITTEE**

SUBJECT: **ALAMO CLEAN AIR PARTNERSHIP (ACAP)**

STATUS: **ADOPTED** **DATE: 05/26/05**

RECOMMENDATION: That the Board of Directors of The Greater San Antonio Chamber of Commerce adopts the following statement as policy.

STATEMENT: The Greater San Antonio Chamber of Commerce supports the Alamo Clean Air Partnership (ACAP) program developed by the Alamo Area Council of Governments in an effort to assure compliance with federal Clean Air Act requirements, to avoid the penalties of a federal nonattainment designation, and to maintain the economic viability of the region. The Chamber recommends that local governments, agencies, businesses and the general public immediately make all appropriate efforts to implement the strategies outlined in the project. Cooperation and involvement by all sectors is necessary to reduce air pollution in our region.

Reasons for support-

1. Companies and agencies that join the partnership will be recognized for their efforts to improve our air quality through media and other outlets.

2. Participation in some ACAP programs can save employers and/or employees money.

3. Because of the "new source review" requirements of the Clean Air Act, regions that are in compliance with national air quality standards are typically much more attractive to new businesses as well as existing businesses expanding their facilities.

IMPLEMENTATION: The Chamber will support and recommend that its members to take an active role in our communities efforts to keep San Antonio's nonattainment status by recruiting them at Committee meetings, educating and periodically advertising the program and reporting Ozone Action days in The Chamber Today. The Chamber will communicate this position to the media, the business community and other Chamber members through publication in The Chamber Today, The Advocate, and media releases and direct members to learn more about the program by contacting Alamo Area Council of Governments (AACOG).

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APPENDIX D – AACOG PUBLIC OUTREACH EFFORTS

AACOG Public Outreach Efforts (01/05 - 06/05)

Efforts to Date of June 9, 2005

1. Television

Type of Outreach	Subject	Contact Persons & Organizations Involved	Date	Target Audience
Video	AACOG's video: Carpooling and Commute Solutions program recording	Alison Young, AACOG Tiffany Pickens, AACOG	3/17/2005	People viewing AACOG video (AACOG employees & others)
Interview	Air Quality (AQ) problems in San Antonio	Alison Young, AACOG Liza Meyer, City of San Antonio Eddie Gonzales, KHCE TV-23	4/5/2005	General Public
Weather Forecast	Air Quality Health Alert (AQHA)	Alison Young, AACOG WOAI TV	5/21/2005 5/31/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG KENS TV	5/21/2005 5/31/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG KSAT TV	5/21/2005 5/31/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG News 9 San Antonio	5/21/2005 5/31/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG FOX News	5/21/2005 5/31/2006	General Public
Weather Forecast	AQHA	Alison Young, AACOG WOAI TV	6/1/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG KENS TV	6/1/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG KSAT TV	6/1/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG News 9 San Antonio	6/1/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG FOX News	6/1/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG KSAT TV	6/1/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG News 9 San Antonio	6/1/2005	General Public

2. Radio

Type of Outreach	Subject	Contact Persons & Organizations Involved	Date	Target Audience
News Piece	30 minute PSA Show: AQ Health Fair (Aired on KSMG-FM, KCYY-FM, KELZ-FM, KISS-FM, KKYX-AM, KONO-FM)	Alison Young, AACOG Karen Klause, MAGIC 105.3 FM	3/29/2005	General Public
Taped Sound bytes, Interviews	Interview - beginning of Ozone Season	Alison Young, AACOG Bud Little, WOAI 1200 AM	3/31/2005	General Public
Taped Sound bytes, Interviews	Announcement - AQ Health Fair	Alison Young, AACOG Bud Little, WOAI 1200 AM	4/5/2005	General Public
News Piece	Announcement - AQ Health Fair and AQ problems in San Antonio	Alison Young, AACOG Brian Kirkpatrick, KTSA 550 AM	4/7/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG KTSA-radio	5/21/2005 5/31/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG WOAI-radio	5/21/2005 5/31/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG KSYM Radio	5/21/2005 5/31/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG Texas Public Radio	5/21/2005 5/31/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG BBN Radio Station KYFS	5/21/2005 5/31/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG KTSA-radio	5/21/2005 5/31/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG WOAI-radio	5/21/2005 5/31/2005	General Public
Taped Sound bytes, Interviews	AQHA	Alison Young, AACOG Elizabeth Ruiz, KTSA-radio	5/20/2005	General Public
Participated in Radio talk show	Car Care maintenance discussed - NAPA Auto Parts Talk Show	Alison Young, AACOG Steve Anderson, NAPA Auto Parts	5/21/2005	General Public
Taped Sound bytes, Interviews	AQHA	Alison Young, AACOG Elizabeth Ruiz, KTSA-radio	5/30/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG KTSA-radio	6/1/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG WOAI-radio	6/1/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG KSYM Radio	6/1/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG Texas Public Radio	6/1/2005	General Public

2. Radio (continued)				
Weather Forecast	AQHA	Alison Young, AACOG BBN Radio Station KYFS	6/1/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG KTSA-radio	6/1/2005	General Public
Weather Forecast	AQHA	Alison Young, AACOG WOAI-radio	6/1/2005	General Public

3. Newspaper & Internet				
Source	**Title of article**	**Contact Persons & Organizations Involved**	**Date**	**Target Audience**
Article (San Antonio Express News)	Title: "NEW: Friday marks start of ozone season "	Peter Bella, AACOG Anton Caputo, SA Express News	3/31/2005	General Public
Article (San Antonio Express News)	Title: "Warmer weather brings area air quality problems"	Alison Young, AACOG Anton Caputo, SA Express News	4/1/2005	General Public
Article (The Herald-Zeitung)	Title: "ozone levels in air reach dangerous levels" 05/21/05	Alison Young, AACOG Ron Maloney, The Herald-Zeitung	5/20/2005	General Public
Article (Seguin Gazette-Enterprise)	Title: "Calm summer days breed air quality alerts" 06/02/05	Alison Young, AACOG Jane Grafe, Seguin Gazette-Enterprise	6/1/2005	General Public

4. Governmental, Civic, or Private Group Presentations				
Organization	**Subject of presentation**	**Contact Persons & Organizations Involved**	**Date**	**Target Audience**
TCEQ and State Energy Conservation Office	Alamo Clean Air Partnership (ACAP) - includes the Comm. Solu. Program	Brenda Williams, AACOG Peter Bella, AACOG	2/3/2005	TCEQ and State Energy Conservation Office
Standard Aero and Lockheed-Martin	Employer Carpooling program	Alison Young, AACOG Frieda Wiley, Standard Aero	2/8/2005	Standard Aero and Lockheed-Martin managers (8 managers)
Greater San Antonio Chamber Public Affairs	ACAP (includes the Comm. Solu. program)	Brenda Williams, AACOG Peter Bella, AACOG	2/15/2005	Greater San Antonio Chamber Public Affairs Air Quality
Texas Independent Automotive Association	Air Quality Health Fair	Alison Young, AACOG	3/17/2005	Family-owned auto. shops & corporate auto. parts companies (30 people)
AARP meeting	AQ and Health	Heather Willden, AACOG Mr. Pace, AARP	4/13/2005	AARP members (13 people)
Senior Citizen Council of Bexar County	AQ and Health	Alison Young, AACOG Mr. Pace, SCCBC	4/15/2005	SCCBC members (20 members)

5. School - Related Education

Type of Outreach	Subject	Contact Persons & Organizations Involved	Date	Target Audience
Presentation	Safe Routes to School at San Antonio ISD (SchoolPool/Walking School Bus)	Alison Young, AACOG Scott Ericksen, MPO	1/14/2005	San Antonio ISD officials (4 people)
AQ Educational Activities	Ar Quality Activities at Scheh Elementary	Alison Young, AACOG Leo Zepeda, Scheh Elementary	1/28/2005	1st - 5th Graders (225 kids)
Presentation	AQ Survey working with a Trinity University marketing class	Alison Young, AACOG Heather Willden, AACOG	2/2/2005	College students (5 students)
Presentation	Safe Routes to School at Bowden Elem. (SchoolPool/Walking School Bus)	Alison Young, AACOG Scott Ericksen, MPO	4/6/2005	35 parents and teachers from Bowden Elem.
AQ Educational Activities	Rose Garden Elementary	Alison Young, Heather Willden, AACOG Suzanne Franklin, Rose Garden Elem.	4/21/2005	130 4th graders
Presentation	International School of the Americas (AQ presentation)	Alison Young, AACOG Mitzi Moore, ISA	4/29/05 5/2/05	120 High School students
Presentation	Safe Routes to Schools at Collins Garden Elementary (SchoolPool/Walking School	Heather Willden, AACOG Scott Ericksen, MPO	5/3/2005	20 parents of elem. school children
Presentation	Safe Routes to Schools at Woodlawn Elem. (SchoolPool/Walking School Bus)	Alison Young, AACOG Scott Ericksen, MPO	5/11/2005	10 parents of elem. students
Presentation	Pecan Valley Elem. Career Fair (SchoolPool/Walking School Bus)	Alison Young, AACOG Heather Willden, AACOG	5/12/2005	200 elem. students
AQ Educational Activities	Lamar Primary School - New Braunfels, TX	Heather Willden, AACOG Mireya Gonzalez, Communities in Schools of Comal County	6/8/2005	10 - 1st graders

6. Events & Public Meetings

Type of Outreach	Subject	Contact Persons & Organizations Involved	Date	Target Audience
Meeting	Partnering Opportunities	Alison Young, AACOG Kourtney Clear, Walk San Antonio Scott Ericksen, MPO	2/4/2005	Walk SA rep. and Scott Ericksen, MPO
Event	Arbor Day Event (Comm. Solu. table & Alamo Forest Partnership table)	Alison Young, AACOG Heather Willden, AACOG Stacy Shipley, City of San Antonio, Public	2/5/2005	General Public (550 people)
Conference	2005 National Air Quality Conference (Hosted by EPA in San Francisco)	Alison Young, AACOG Brenda Williams, AACOG	2/12/05 - 2/17/05	Outreach people and forecasters from all over the US and world
Meeting	AIR Exec. & Advisory Committee (Report - Comm. Solu. program & AQ outreach)	Alison Young, AACOG	2/23/2005	General Public and Public Officials
Event	Leon Valley Earthwise Living Fair (Commute Solutions Table)	Alison Young, AACOG Heather Willden, AACOG	2/26/2005	General Public

6. Events & Public Meetings (continued)				
Event	Mow Down Smog (Comm. Solu. Info)	Alison Young, AACOG Greg Tieken, CPS	3/19/2005	General Public
Event	Kid's Day (AQ table)	Alison Young, AACOG Heather Willden, AACOG	4/2/2005	General Public
Event	Air Quality Health Fair (AACOG Hosted - 25 organizations)	Alison Young, AACOG	4/9/2005	General Public (1000 people)
Event	Air, Waste and Management Workshop (Commute Solutions table)	Alison Young, AACOG Terry Casey, NISD	4/11/2005	65 environmental professionals
Event	Earth Day with Standard Aero and Lockheed Martin (Commute Solutions/ACAP Table)	Alison Young, AACOG Brenda Williams, AACOG Brian Skrobarcek, Standard Aero	4/14/2005	Standard Aero and Lockheed Martin employees
Event	Earth Day - Woodlawn Park (Commute Solutions table)	Alison Young, AACOG	4/16/2005	General Public (2000 people)
Event	Earth Day - UTSA (Commute Solutions table)	Alison Young, AACOG Heather Willden, AACOG	4/20/2005	UTSA students and staff (100 people)
Event	Earth Day - Kerrville (AQ table)	Heather Willden, AACOG	4/23/2005	General Public
Meeting	AIR Exec. & Advisory Committee (Report - Comm. Solu. program & AQ outreach)	Alison Young, AACOG	4/27/2005	General Public and Public Officials
Event	SAWS WaterFest (AQ table)	Alison Young, AACOG	4/30/2005	General Public (3000 people)
Event	Walk & Roll Fest (Commute Solutions table)	Alison Young, AACOG Brenda Williams, AACOG Lydia Kelly, MPO	5/1/2005	General Public (225 people)
Event	SBC Safety Fair (Commute Solutions table)	Alison Young, AACOG Heather Willden, AACOG Hector Galvan, SBC	5/5/2005 - 5/6/2005	SBC Call Center Employees (500 Employees)
Event	Walk & Roll to Work (Commute Solutions table)	Alison Young, AACOG Scott Ericksen, MPO	5/6/2005	250 people participated
Event	SAMA TradeFair (Commute Solutions/ACAP table)	Isabel Chacon, AACOG Brenda Williams, AACOG	5/12/2005	200 professionals
Event	Safety Fair Lackland Annex (Employer Carpool program sign-up)	Alison Young, AACOG Heather Willden, AACOG Lisa Thomas, Lackland AFB	5/25/2005	300 Lackland employees

7. News Items Issued

Type of Outreach	Subject	Contact Persons & Organizations Involved	Date	Target Audience
Press Release	Air Quality Health Fair 2005	Alison Young, AACOG Tiffany Pickens, AACOG	3/30/2005	General Public
Press Release	Commuter Incentives program	Alison Young, AACOG Tiffany Pickens, AACOG	4/12/2005	General Public
PSA	Take Steps At Lunchtime For Cleaner Air And A Slimmer Figure	Alison Young, AACOG	4/13/2005	General Public

APPENDIX E – TERMS

his list comprises "Appendix E - TERMs" of the Fifth Semi-annual Report: The Early Action Compact for the San Antonio Region. Of the 332 TERMs projects listed, some 128 (~39%) do not yet ave a completion date listed. This list will be updated until shortly before the June 30, 2005 deadline for submitting this report. -Peter Bella, June 11, 2005

Project Type	Agency	Project Name	From	To	Let Date	Completion Date	VOC (lbs/day)	NOx (lbs/day)
idewalk	TxDOT	Acme Road	Old Highway 90		1999	2001	0.069	0.058
idewalk	TxDOT	Gevers St	IH 10	Southcross	2000		0.242	0.204
idewalk	TxDOT	Henderson Pass	Thousand Oaks	Gold Canyon	2000		0.202	0.170
idewalk	TxDOT	IH 410	Bertetti	Marbach	2000	2000	0.050	0.042
ike/Ped	TxDOT	Mission Trails (Phase 3)	E. Southcross	Mitchell St.	2000	2001	0.712	0.600
ike/Ped	TxDOT	Mitchell St.	Probandt to	Roosevelt	2000	2003	0.104	0.088
ike/Ped	TxDOT	Nogalitos (LP 353)	Zarzamora / New Laredo Hwy	Surrey	2000	2003	0.235	0.198
ike/Ped	TxDOT	Probandt St.	US 90	Mitchell	2000	2003	0.014	0.012
ike/Ped	TxDOT	Prue Rd	Laureate	Fredericksburg	2000	2002	0.065	0.054
ike/Ped	TxDOT	Rittiman	Austin Hwy (LP 368)	Harry Wurzbach	2000	2002	0.124	0.105
ike/Ped	TxDOT	Timber Path Bikeway	Les Harrison	Grissom Rd.	2000		0.166	0.140
ike/Ped	TxDOT	Bitters Rd	Broadway	Nacogdoches Rd.	2001	2003	0.282	0.237
ike/Ped	TxDOT	Callaghan	Hemphill	Culebra	2001	2003	0.266	0.225
ike/Ped	TxDOT	Coliseum Rd.	East Houston St.	Gembler Rd.	2001		0.123	0.104
ike/Ped	TxDOT	East Houston St.	Walters	Onslow	2001	2003	0.054	0.045
ike/Ped	TxDOT	East Houston St.	Onslow St.	Salado Creek	2001		0.084	0.071
ike/Ped	TxDOT	Pearsall Rd (FM 2536)	Loop 13 (Military Drive)	IH 410	2001	2003	2.630	2.216
ike/Ped	TxDOT	Pecan Valley Dr	J St. to	IH 10	2001	2003	0.049	0.041
ike/Ped	TxDOT	Pleasanton	Moursund	Gillette	2001	2003	0.027	0.023
ike/Ped	TxDOT	Southcross	WW White (LP 13)	Loop 410	2001	2003	0.209	0.176
ike/Ped	TxDOT	Uhr Lane	Higgins	Thousand Oaks	2001	2004	0.210	0.177
ike/Ped	TxDOT	New World	Crestway	Montgomery	2004	2004	0.050	0.042
idewalk	TxDOT	New World	Montgomery Dr	Walzem Rd (FM 1976)	2004	2004	0.050	0.042
idewalk	Federal	Alamo	Cedar	San Antonio River	2003		0.031	0.026
idewalk	TxDOT	W.W. White Rd. (Loop 13)	Seale Road	IH-10	2004	2005	0.336	0.283
idewalk	TxDOT	Grissom/Culebra (FM 471)	SH 16	Loop 1604	2003		2.040	1.719
idewalk	TxDOT	Southcross Blvd.	S. New Braunfels to S. Presa St.	S. Presa St.	2005		0.107	0.090
idewalk	TxDOT	Hunt Lane	Marbach to US 90	US 90	2004	2004	0.273	0.230
idewalk	Federal	Isom	Ramsey	US 281	2004	2004	0.084	0.071
idewalk	COSA	Roland (US 87)	IH 10	Rigsby Avenue	2004		0.100	0.084
idewalk	COSA	SH 218 (Pat Booker Road)	Loop 1604	FM 78	2004		0.998	0.841
idewalk	COSA	Sunset	Jones Maltsberger	Teak	2004		0.135	0.114
idewalk	Bexar Co.	Kitty Hawk Rd	Miller Rd.	Converse City Limits	2004		0.070	0.059
ikeway	COSA	UTSA to OLLU Corridor	Houston St.	24th St.	2004		0.507	0.427
ikeway	COSA	Cincinnati	St. Mary's University	Navidad	2004		0.189	0.159
ikeway	COSA	Cincinnati / Ashby	Navidad	North St. Mary's St.	2004		0.189	0.159
ikeway	COSA	Alamo / Broadway Corridor	Josephine	The Alamo	2004		0.297	0.251
ikeway	Bexar Co.	Crestway	Miller Road	New World	2004		0.070	0.059
idewalk	Bexar Co.	New World	Crestway	Miller Road	2004	2005	0.026	0.022
ike racks	COSA		Various Locations		2004		0.000	0.000
idewalk	COSA	Clark	Southcross	Hot Wells	2004		0.073	0.062

Project Type	Agency	Project Name	From	To	Let Date	Completion Date	VOC (lbs/day)	NOx (lbs/day)
idewalk	Bexar Co.	Crestway Drive	New World	Windcrest City Limits	2004		0.060	0.051
idewalk	COSA	Hot Wells	IH 37	New Braunfels	2004		0.016	0.013
idewalk	COSA	E. Houston	Pine	Walters	2004		0.060	0.050
ike Lane	COSA	Ingram	Callaghan	Benrus	2004		0.215	0.181
idewalk	COSA	Blanco Road (FM 2696)	Lockhill Selma	West Avenue	2004		0.421	0.355
ike Lane	Univ City	SH 218	Loop 1604	FM 78	2004		0.928	0.782
idewalk	COSA	Flores, S	0.6 Mi N of Malone	Octavia	2005		0.191	0.161
idewalk	COSA	Mayfield	Commercial	Zarzamora	2005		0.024	0.020
idewalk	COSA	McCullough	Basse	RR Tracks	2005		0.087	0.073
idewalk	COSA	Nakoma	@ US 281	4C	2005		0.256	0.216
idewalk	COSA	Woodlawn	Bandera	Maiden 4C	2005		0.104	0.087
idewalk	COSA	Sunset	Teak	Broadway 4C	2005		0.103	0.086
idewalk/bike	COSA	Callaghan	Bandera	Horseshoe Bend	2007		0.414	0.349
ike Lane	COSA	SAC to CBD	Howard	4th	2001	2001	0.082	0.069
ike Lane	COSA	Montana/Nevada	Cherry	Meerscheidt	2001	2001	0.040	0.034
ike Lane	COSA	N.Zarzamora	Nogalitos	Theo	2001	2001	0.158	0.133
ike Lane	COSA	N. St. Mary's	Lexinton	Huisache	2001	2001	0.199	0.168
ike Lane	COSA	Callaghan	Old Highway 90	New HWY 90	2001	2001	0.128	0.108
ike Lane	COSA	S. Zarzamora	SW Loop 410	IH 35	2001	2001	0.338	0.285
ike Lane	COSA	Caliza	Encino Rio	Evans Rd.	2001	2001	0.061	0.052
ike Lane	COSA	UTSA to SAC	Buena Vista	San Pedro	1999	1999	0.299	0.252
ike Lane	COSA	Les Harrison	Culebra	Dover Ridge	2000	2000	0.313	0.264
ike Lane	COSA	Josephine Grayson	Broadway	New Braunfels	2000	2000	0.085	0.072
ike Lane	COSA	Walters	Fair Ave.	Rigsby Avenue	2000	2000	0.235	0.198
ike Lane	COSA	Villaret	Zarzamora	Hwy 16	2000	2000	0.074	0.062
idewalk	COSA	Rice Reconstruction	W. W. White	Semlinger	2004		0.033	0.028
idewalk	Comal Co.	New Braunfels	LP 337	0.8 KM N of Walnut Ave.	2004		0.197	0.166
ike path	COSA	Malone / Theo	Quintana	Concepcion Park	2004		0.655	0.552
ide walk	COSA	Gen Mcmullen	Roselawn	Commerce	1999	1999	0.664	0.560
ike Path	COSA	Avenue B (Bicycle Lanes)	Mulberry	Brackenridge	2000	2000	0.095	0.080
ike Path	COSA	Montana Street Bike Lane	Alamodome	Walters	2001	2001	0.018	0.016
ike Path	COSA	Villaret Bicycle Transportation	W. Villaret	E. Villaret	2001	2001	0.107	0.090
ike Path	COSA	Zarzamora Bike Lane	IH 35	Loop 410	2001	2001	0.000	0.000
ike Path	COSA	Eagleland/Riverwalk Link	Eagleland Drive	Guenther Street Bridge	2006		0.021	0.018
idewalk	COSA	Mckay	(400 Block)	(500 Block)	2001	2001	0.008	0.006
idewalk	COSA	Harvard Terrace	Yale	University	2001	2001	0.001	0.001
ide walk	COSA	Dell Place Drainage Project	North Freeman	(dead end)	2001	2001	0.000	0.000
idewalk	COSA	Hardeman St Sidewalks	Mesquite	Hackberry	2001	2001	0.002	0.002
idewalk	COSA	Gevers-IH 10	Gevers	Southcross	2001	2002	0.131	0.110
idewalk	COSA	New Braunfels	Rigsby	Southcross/IH 37	2001	2001	0.278	0.234
idewalk	COSA	Henderson Pass Sidewalks	Thousand Oaks	Gold Canyon.	2001	2001	0.818	0.689
idewalk	COSA	Danbury Sidewalks:	Nacogdoches	Broadway	2002	2002	0.021	0.018
idewalk	COSA	Ray Bon Drive Sidewalks	Eisenhauer	Village Haven	2002	2002	0.031	0.026

Project Type	Agency	Project Name	From	To	Let Date	Completion Date	VOC (lbs/day)	NOx (lbs/day)
idewalk	COSA	New Braunfels	IH 35	Grayson	2002	2002	0.068	0.057
idewalk	COSA	Pedestrian Bridge	War Horse	Trading Post	2002	2002	0.001	0.000
idewalk	COSA	Hoover Street	Nogalitos	Charlotte	2003	2003	0.003	0.002
idewalk	COSA	2003 NAMP Sidewalk	Mccullough	Mulberry	2004	2004	0.595	0.502
idewalk	COSA	Navajo Area Streets	(Navajo/Hutchins/Barlite)	(Navajo/Hutchins/Barlite)	2004	2004	0.159	0.134
idewalk	COSA	McCarty Sidewalks & Curbs	Lorene	Blanco	2004	2004	0.031	0.026
idewalk	COSA	Harris Storm Drainage	Alvarez	(Glass/Cass/Halstead)	2004		0.038	0.032
idewalk	COSA	Kono	Gembler	Belgium	2005		0.026	0.022
idewalk	COSA	Octavia	#63 Phase II	Part B	2005		0.103	0.087
idewalk	COSA	La Manda	West Avenue	Buckeye	2006		0.006	0.005
idewalk	COSA	Rosabell Street	Culebra	Inez	2006		0.006	0.005
idewalk	COSA	Cincinnati	Fredericksburg	IH 10	2007		0.019	0.016
idewalk	COSA	Cornell	Brazos	Colorado	2007		0.009	0.007
ignal	TxDOT	US 281	At Borgfeld, Bulverde, Wilderness C	and Stone Oak Roads	2003		3.797	2.327
ignal	Bexar Co.	Foster Road	Candlemeadow	4C	2005		0.253	0.155
ignal	Bexar Co.	Foster Road	Summer Fest	4C	2005		0.059	0.036
ignal	Comal Co.	SH46	HEB driveway		2001		0.052	0.041
ignal	Comal Co.	FM 725	County Line Rd		2001		1.003	0.788
ignal	Comal Co.	FM 3009	FM 2252 in Garden Ridge		2001		0.575	0.452
ignal	New Braun.		Union	Common	2004	2004	0.075	0.059
ignal	Guadalupe Co.	FM 3009	Savana/Verde Dr.		2001		2.097	1.488
ignal	Guadalupe Co.	SH46	US 90		2004		1.165	0.827
ignal	Guadalupe Co.	SH46	US 90		2004		0.272	0.193
ignal	Guadalupe Co.	FM 3009	IH 35E	0.21 Mi SE of IH 35	2004		1.010	0.717
ntersection	TxDOT	Hunt Lane	Marbach	US 90	2004		2.790	1.674
ntersection	TxDOT	Bitters	East of West Ave (W.of US 281)		2005		5.529	3.317
ntersection	TxDOT	Wurzbach	Ironside	IH 10	2004		6.251	3.751
ntersection	TxDOT	IH 10	Callaghan Road		2004		4.664	2.798
ntersection	TxDOT	IH 10	IH 10 West at Huebner Road		2004		4.664	2.798
ntersection	TxDOT	Loop 1604	SH 16	FM 1937	2004		0.173	0.104
ntersection	TxDOT	Loop 1604	IH 35	SH 16	2004		3.731	2.239
ntersection	TxDOT	IH 10	DeZavala Road		2004		4.961	2.977
ntersections	COSA	James Park Development	Rittiman and Holbrook.		2005		2.292	1.375
ntersections	COSA	West Ave	Larkspur	Silver Sands, Rhapsody and Nakon	2000	2000	15.325	9.195
ntersections	COSA	Tezel	Tezel	Timber Path	2000	2000	3.168	1.901
ntersections	COSA	Broadway	Broadway	Wetmore Rd	2001	2001	2.044	1.227
ntersections	COSA	Southwest Craft Cntr	Navaro	Augusta	2004	2004	0.842	0.505
ark & Ride	VIA	Crossroads	IH-10W & Loop 410		1988	1988	2.039	1.718
ark & Ride	VIA	Ellis Alley	Chestnut & Center Street		1998	1998	4.166	3.511
ark & Ride	VIA	University	IH 10 W & Loop 1604		1993	1993	15.150	12.767
ark & Ride	TxDOT	Elmendorf	US 181 S.& Loop 1604		1981	1981	2.573	2.168
ark & Ride	privately owned	St. Hedwig	FM 1346 & Pittman Rd.		1988	1988	0.529	0.446

Project Type	Agency	Project Name	From	To	Let Date	Completion Date	VOC (lbs/day)	NOx (lbs/day)
ark & Ride	VIA	Randolph Blvd	IH 35 N & Crestway		1980	1980	3.038	2.560
ransit CT.	VIA	Ingram	Ingram Road & Northwestern		1988	1988	0.547	0.461
ransit CT.	VIA	Kel-Lac	US 90 W. & Military Dr.		2004	2004	1.558	1.313
rade Sep	TxDOT	Loop 1604	0.52 KM N of FM 471 (Culebra Rd.)	0.98 KM S of FM 471 (Culebra Rd.)	2001		17.896	10.738
rade Sep	TxDOT	IH 410	SH 16	UPRR	2004		3.722	2.233
rade Sep	TxDOT	US 281	Borgfeld Dr		2006		17.896	10.738
raffic Flow	TxDOT	Acme Road	Old Highway 90		1999		0.622	0.207
raffic Flow	TxDOT	Evers Rd.	N. of Glen Ridge	Daughtry Dr.	1999	2000	1.335	0.445
raffic Flow	TxDOT	FM 2522 (Perrin Beitel)	IH 410		1999		0.526	0.175
raffic Flow	TxDOT	FM 78	Bexar Co. Ln.	FM 3009	1999		2.653	0.884
raffic Flow	TxDOT	Houston (FM 1346)	Pop Gunn		1999		2.002	0.667
raffic Flow	TxDOT	IH 10	0.2 mile South of Callaghan Road	0.2 mile South of N. Crossroads Blv	1999		27.854	9.285
raffic Flow	TxDOT	IH 410	Interchange at US 281 Fr: US 281	Nacogdoches	1999		6.472	2.157
raffic Flow	TxDOT	SH 151	Callaghan Rd		1999		0.335	0.112
raffic Flow	TxDOT	Tezel	Timber Path		1999	2000	0.609	0.203
raffic Flow	TxDOT	US 281	0.590 KM N of LP 1604	0.746 KM N of LP 1604	1999		6.398	2.133
raffic Flow	TxDOT	West Avenue	FM 1535 (NW Military Hwy)	IH 410	1999	2002	2.646	0.882
raffic Flow	TxDOT	Wurzbach Parkway	Lockhill-Selma	FM 1535 (NW Military Hwy)	1999	2002	0.460	0.153
raffic Flow	TxDOT	24th	Commerce	Culebra	2000	2001	2.353	0.784
raffic Flow	TxDOT	Ackerman Rd.	IH 10	Dietrich	2000		0.190	0.063
raffic Flow	TxDOT	Hildebrand	IH-10	Breeden	2000	2003	2.767	0.922
raffic Flow	TxDOT	Hildebrand	Hwy. 281		2000		0.454	0.151
raffic Flow	TxDOT	Huebner Road	Evers Road	Redbird Lane (E of city limit)	2000		1.288	0.429
raffic Flow	TxDOT	Lockhill Selma	George Road	Whisper Path	2000	2003	0.846	0.282
raffic Flow	TxDOT	O'Connor Rd	Crosswinds	IH 35	2000		3.418	1.139
raffic Flow	TxDOT	Wetmore	At Broadway		2000		0.203	0.068
raffic Flow	TxDOT	Wurzbach Rd	0.6 Mi East of Ingram Rd	Leon Valley WCL	2000		1.945	0.648
raffic Flow	TxDOT	Coliseum Rd.	Belgium Rd.	IH 35	2001		0.712	0.237
raffic Flow	TxDOT	Culebra Rd (FM 471)	Loop 1604		2001		4.097	1.366
raffic Flow	TxDOT	IH 410	Jackson-Keller Road	Honeysuckle Lane	2001		42.811	14.270
raffic Flow	TxDOT	IH 410	Honeysuckle Lane	Blanco Rd	2001		25.183	8.394
raffic Flow	TxDOT	Loop 1604	0.6 KM N of Military Dr	US 90	2001		10.960	3.653
raffic Flow	TxDOT	Loop 1604	1.6 KM N. of FM 471 (Culebra Rd)	0.6 KM N of Military Dr.	2001		10.818	3.606
raffic Flow	TxDOT	Loop 345	Cinnamon Creek	USAA Bvld	2001		0.136	0.045
raffic Flow	TxDOT	Wurzbach Road	Crystall Hill	Crystall Hill	2001	2003	1.361	0.454
raffic Flow	TxDOT	IH 35	Coliseum & Walters		2002		0.053	0.018
raffic Flow	TxDOT	IH 410	SH 151		2002		0.009	0.003
raffic Flow	TxDOT	Pleasanton	Southcross	Mayfield	2002	2004	0.981	0.327
raffic Flow	TxDOT	Ralph Fair Rd. (FM 3351)	Fawn Mountain, Pimlico, Dietz-Elkh	Fair Oaks Parkway	2002	2003	4.243	1.414
raffic Flow	TxDOT	SH 151	0.22 Mi W of Callaghan Rd.	0.3 Mi E of IH 410	2004	2005	17.904	5.968
raffic Flow	TxDOT	SH 151	0.3 Mi E of IH 410	1.0 Mi E of Loop 1604	2004		19.142	6.381
raffic Flow	TxDOT	Ironside	Wurzbach		2004		0.326	0.109

Project Type	Agency	Project Name	From	To	Let Date	Completion Date	VOC (lbs/day)	NOx (lbs/day)
raffic Flow	Bexar Co.	Mission Rd.	N. of SA River Mission Pkwy		2004		0.070	0.023
raffic Flow	COSA	Thousand Oaks	Broken Oak, Ledge View, Turkey P	Pebble Forest & Oak View	2004		2.118	0.706
raffic Flow	TxDOT	Zarzamora	IH 410	Applewhite Road	2004		1.999	0.666
raffic Flow	TxDOT	Applewhite Road	Zarzamora	Watson Road	2004		1.999	0.666
raffic Flow	TxDOT	Loop 1605	FM 1937	IH 37	2004		1.243	0.414
raffic Flow	TxDOT	Military Dr., S.E. (LP 13)	Padre	Mission Rd 4C	2005		0.486	0.162
raffic Flow	Comal Co.	LP 337	0.16 KM N of BI 35-H	0.48 KM N of UPRR	2001		3.446	1.378
raffic Flow	Guadalupe Co.	SH 46	2.2 Mi S of FM 758 New Braunfels	Camp Willow Rd. (0.2 Mi S of FM 7	2002		5.878	2.177
raffic Flow	Guadalupe Co.	FM 78	Bexar Co. Ln.	FM 3009	2002		4.299	1.592
raffic Flow	Wilson Co.	FM 1346	US 87 W of Lavernia	FM 775	2001		1.400	0.560
raffic Flow	Guadalupe Co.	SH 46	0.2 Mi S of FM 758	Comal Co line	2004		4.219	1.562
raffic Flow	Guadalupe Co.	SH 123	Fr US 90 Kingsbury St	IH 10	2004		1.193	0.442
raffic Flow	COSA	36th ST.	US 90	Growdon	2007		2.792	0.931
raffic Flow	COSA	Blanco Road	Blanco Road - Hildebrand	Summit Phase 1	2006		3.602	1.201
raffic Flow	COSA	Wurzbach Parkway Phase IV	Military Highway	Blanco Road	2002	2002	17.353	5.784
raffic Flow	COSA	Wurzbach Rd:	Ingram Rd	Leon Valley	2002	2002	4.649	1.550
raffic Flow	COSA	Hamilton	Guadalupe	Laredo	1999	1999	0.582	0.194
raffic Flow	COSA	Wurzbach Rd @ Vance Jackson			1999	1999	2.227	0.742
raffic Flow	COSA	Mitchell Street	Probandt	Presa	1999	1999	0.336	0.112
raffic Flow	COSA	Valley Hi Drive	IH 410	Ray Ellison	1999	1999	0.412	0.137
raffic Flow	COSA	Chipinque Drainage	General Mcmullen	Escuela	1999	1999	1.297	0.432
raffic Flow	COSA	Zarzamora	Culebra	Commerce	1999	1999	2.705	0.902
raffic Flow	COSA	Calaveras	Saunders	Guadalupe	1999	1999	0.568	0.189
raffic Flow	COSA	Courtland Street	Mccullough	St. Mary's	1999	1999	0.424	0.141
raffic Flow	COSA	Guadalupe Gardens Phase II			1999	1999	1.241	0.414
raffic Flow	COSA	Chico/Knox/Margil			1999	1999	0.024	0.008
raffic Flow	COSA	Folyn/Jersey/Custer/Orange			1999	1999	0.280	0.093
raffic Flow	COSA	Travis	Zarzamora	Hamilton	1999	1999	0.566	0.189
raffic Flow	COSA	Villa Coronado Streets, Phase III A			1999	1999	0.097	0.032
raffic Flow	COSA	Mayfield	Somerset	Laredo Hwy	1999	1999	0.122	0.041
raffic Flow	COSA	Hazel Drainage	Zarzamora	Brazos	1999	1999	0.751	0.250
raffic Flow	COSA	Lillita	Gen. Mcmullen	Las Palmas	1999	1999	0.108	0.036
raffic Flow	COSA	Advance & Brice			1999	1999	0.045	0.015
raffic Flow	COSA	calle morelia drainage			1999	1999	0.095	0.032
raffic Flow	COSA	Emory / Kentucky			1999	1999	0.120	0.040
raffic Flow	COSA	26th Street	Travis	Culebra	1999	1999	0.147	0.049
raffic Flow	COSA	Wurzbach Parkway Phase II			1999	1999	11.623	3.874
raffic Flow	COSA	Keitha Area Streets Phase II			1999	1999	0.645	0.215
raffic Flow	COSA	Muskogee	Acme	40th	1999	1999	0.080	0.027
raffic Flow	COSA	Boehmer	Burbank Loop	S. Flores	1999	1999	0.014	0.005
raffic Flow	COSA	Dewitt	IH 10	Fairmont	1999	1999	0.028	0.009
raffic Flow	COSA	Claremont/Eleanor/Natalen,Ph I&Mahncke Ph IV			1999	1999	0.234	0.078

Project Type	Agency	Project Name	From	To	Let Date	Completion Date	VOC (lbs/day)	NOx (lbs/day)
raffic Flow	COSA	Lake Blvd/Woodlawn/Streets	Around Woodlawn Lake		1999	1999	2.077	0.692
raffic Flow	COSA	S. Flores Drn #70-70a, Ph. II--Part 2			2000	2000	0.000	0.000
raffic Flow	COSA	34th Street	Hwy 90	Castroville	2000	2000	0.064	0.021
raffic Flow	COSA	27th	Culebra	Rivas	2000	2000	0.052	0.017
raffic Flow	COSA	21st Street	Salinas	Poplar	2000	2000	0.268	0.089
raffic Flow	COSA	Eastlawn Neighborhood Streets Phase II			2000	2000	0.435	0.145
raffic Flow	COSA	Southlawn	Merida	Castroville	2000	2000	0.089	0.030
raffic Flow	COSA	Madrid	Merida	Castroville Rd	2000	2000	0.025	0.008
raffic Flow	COSA	Grandview Neighborhood Streets Ph. IIIA		(K Street)	2000	2000	0.047	0.016
raffic Flow	COSA	Wurzbach Parkway Phase III			2000	2000	0.391	0.130
raffic Flow	COSA	Glenmore		Kentucky	2000	2000	0.047	0.016
raffic Flow	COSA	Villa Coronado Streets Phase IIIB			2000	2000	0.043	0.014
raffic Flow	COSA	Arbor	Trinity	San Marcos	2000	2000	0.083	0.028
raffic Flow	COSA	Fairdale	Rittiman	Bloomdale	2000	2000	0.323	0.108
raffic Flow	COSA	Stahl Rd. #1038 Phase I	Fairway Oaks	Bulverde	2000	2000	0.273	0.091
raffic Flow	COSA	Babcock & Hillcrest Intersection			2000	2000	1.364	0.455
raffic Flow	COSA	Apple Valley	Haven Valley	Ray Ellison	2000	2000	0.141	0.047
raffic Flow	COSA	Las Palmas	Charben	26th	2000	2000	0.129	0.043
raffic Flow	COSA	Contour Dr / El Monte St			2000	2000	1.697	0.566
raffic Flow	COSA	Evers Rd	Glenridge	Daughtry	2000	2000	1.424	0.475
raffic Flow	COSA	Baylor St	San Pedro Ck.	Flores St.	2000	2000	0.010	0.003
raffic Flow	COSA	Culebra Area Streets Phase II			2000	2000	0.901	0.300
raffic Flow	COSA	Hildebrand @ 281			2000	2000	1.040	0.347
raffic Flow	COSA	Lone Oak/Latimer:	F St	Brice	2001	2001	0.020	0.007
raffic Flow	COSA	Rip Rap 69-Phiic Part 3			2001	2001	0.105	0.035
raffic Flow	COSA	Ackerman	IH 10	Dietrich	2001	2001	0.216	0.072
raffic Flow	COSA	Carson Street	Walters	Frank	2001	2001	0.077	0.026
raffic Flow	COSA	Starcrest	Stuntman	Jones Maltsberger	2001	2001	0.081	0.027
raffic Flow	COSA	Bobolink 96A	Storeywood	Deneice	2001	2001	1.828	0.609
raffic Flow	COSA	Mahncke Area Streets, Phase II			2001	2001	0.752	0.251
raffic Flow	COSA	Creswell	Houston	Deadend	2001	2001	0.024	0.008
raffic Flow	COSA	Thorain	Buckeye	S.P. Railroad	2001	2001	0.039	0.013
raffic Flow	COSA	Fred. Rd	Sandoval	Woodlawn	2001	2001	1.472	0.491
raffic Flow	COSA	Hobart Street	Acme Rd	40th St	2001	2001	0.023	0.008
raffic Flow	COSA	Lawton / Sw 41st Street			2001	2001	0.019	0.006
raffic Flow	COSA	Orr	Suzette	Winkle	2001	2001	0.019	0.006
raffic Flow	COSA	Fleming	Mayfield	Peabody	2001	2001	0.016	0.005
raffic Flow	COSA	Evers Rd @ Wurzbach Rd Intersection			2001	2001	0.102	0.034
raffic Flow	COSA	Capitol	Basse	San Angelo	2001	2001	0.010	0.003
raffic Flow	COSA	Grandview Neighborhood Sts Ph IIIB	Pecan Valley	Amanda	2001	2001	0.020	0.007
raffic Flow	COSA	Pace	Elmendorf	Brazos	2001	2001	0.139	0.046
raffic Flow	COSA	Texas / Waverly Streets			2001	2001	0.527	0.176

Project Type	Agency	Project Name	From	To	Let Date	Completion Date	VOC (lbs/day)	NOx (lbs/day)
raffic Flow	COSA	Basse Road & San Pedro Intersection			2001	2001	1.625	0.542
raffic Flow	COSA	Monterrey	36th	San Joaquin	2001	2001	0.467	0.156
raffic Flow	COSA	Blueridge	Gen Mcmullen	27th	2001	2001	0.143	0.048
raffic Flow	COSA	Rip Rap 69 - Ph IIC Part 3A			2001	2001	0.166	0.055
raffic Flow	COSA	Callaghan:	Old Hwy 90	Commerce	2001	2001	1.021	0.340
raffic Flow	COSA	Duval/Seguin:	Pierce	Walters	2001	2001	0.223	0.074
raffic Flow	COSA	24th St:	Commerce	Culebra	2001	2001	0.236	0.079
raffic Flow	COSA	Claremont/Eleanor/Natalen, Ph II			2001	2001	0.175	0.058
raffic Flow	COSA	Strech	Chavaneaux	Malley Blvd	2001	2001	0.128	0.043
raffic Flow	COSA	Indianola	Garfield	Camargo	2001	2001	0.008	0.003
raffic Flow	COSA	Elsmere	Michigan	Capitol	2002	2002	0.021	0.007
raffic Flow	COSA	Arbor	Trinity	San Marcos Ph II	2002	2002	0.029	0.010
raffic Flow	COSA	Escalon St. #1008			2002	2002	0.051	0.017
raffic Flow	COSA	S. Flores Drn #70-70A, Ph. II--Part 3			2002	2002	11.316	3.772
raffic Flow	COSA	Octavia #63 Phase 1			2002	2002	0.678	0.226
raffic Flow	COSA	Leonhardt Road @ Low Water Crossing			2002	2002	0.299	0.100
raffic Flow	COSA	St. Marys Street -	Pereida	Roosevelt	2002	2002	0.841	0.280
raffic Flow	COSA	Lockhill-Selma:	George	Whisper Path	2003	2003	0.731	0.244
raffic Flow	COSA	39th Street #58m, Phase II A			2003	2003	0.871	0.290
raffic Flow	COSA	Quintana Road Drainage #64 Extension			2003	2003	0.648	0.216
raffic Flow	COSA	S. Flores:	Durango	Franciscan	2003	2003	1.269	0.423
raffic Flow	COSA	Monticello:	S. Gevers	Hillje	2003	2003	0.095	0.032
raffic Flow	COSA	Higgins Road:	Nacogdoches	Stahl	2003	2003	1.551	0.517
raffic Flow	COSA	Hi Lions 80 Mod PIII & V			2004	2004	11.176	3.725
raffic Flow	COSA	Bee Street:	Walters	Frank	2004	2004	0.030	0.010
raffic Flow	COSA	Aransas:	Meerscheidt	Walters	2004	2004	0.077	0.026
raffic Flow	COSA	Flores/Breeden/Beacon, Phase II			2004	2004	0.417	0.139
raffic Flow	COSA	Mockert Street Area	Mockert, Forest,	(W. Lambert, Kline, Cass)	2004	2004	0.435	0.145
raffic Flow	COSA	Pleasanton Road	Gillette	Loop 410	2004	2005	0.000	0.000
raffic Flow	COSA	Northington	S.W. 36th	S.W. 35th	2004	2004	0.075	0.025
raffic Flow	COSA	Fay Street / St Joseph:	Creighton	New Laredo Hwy, Part 1	2005		0.264	0.088
raffic Flow	COSA	Fay Street / St. Joseph:	Creighton	New Laredo Hwy, Part 2	2005		0.000	0.000
raffic Flow	COSA	Belgium:	Picarde	Sbc Parkway	2005		0.137	0.046
raffic Flow	COSA	El Monte	Blanco	San Pedro, Phase II	2005		0.045	0.015
raffic Flow	COSA	Lanark Drainage #92A, Phase 1			2005		0.383	0.128
raffic Flow	COSA	Larkspur	West Ave	Baltic	2005		0.260	0.087
raffic Flow	COSA	Sunset Ph I	Jones Maltsberger	Teak	2005		1.014	0.338
raffic Flow	COSA	Alamo	Durango	Cedar	2005		0.328	0.109
raffic Flow	COSA	Wurzbach Rd @ IH 10 Intersection			2005		2.128	0.709
raffic Flow	COSA	St. Marys Street	Alamo	Pereida	2005		0.202	0.067
raffic Flow	COSA	Ansley Blvd Drainage #1091			2006		0.139	0.046
raffic Flow	COSA	Duke Area Streets, Phase I			2006		0.275	0.092

Project Type	Agency	Project Name	From	To	Let Date	Completion Date	VOC (lbs/day)	NOx (lbs/day)
raffic Flow	COSA	Culebra Area Streets Phase IV			2006		0.288	0.096
raffic Flow	COSA	Howard Drainage	Wildwood	El Monte	2006		0.018	0.006
raffic Flow	COSA	Ave Maria Drainage			2006		0.056	0.019
raffic Flow	COSA	Goliad Rd	Pecan Valley	Military Drive	2006		0.329	0.110
raffic Flow	COSA	W. Craig	Elmendorf	Josephine Tobin	2006		0.027	0.009
raffic Flow	COSA	Woodlawn Ave:	San Antonio	Lake	2006		0.199	0.066
raffic Flow	COSA	Ozark	Erskine	Williamsburg	2006		0.064	0.021
raffic Flow	COSA	Florida	IH 37	St Marys	2006		0.380	0.127
raffic Flow	COSA	Sunset Ph II	Teak	Broadway	2006		0.538	0.179
raffic Flow	COSA	Woodlawn	Bandera	Maiden	2006		0.114	0.038
raffic Flow	COSA	Semlinger Road	Lord	Rigsby	2006		0.434	0.145
raffic Flow	COSA	Stahl Road	O'connor	Judson	2007		1.147	0.382
raffic Flow	COSA	Marbach Phase I	Military	Pinn	2007		0.654	0.218
raffic Flow	COSA	Redland Road Improvements	Redland Woods	Jones Maltsberger	2007		2.516	0.839
raffic Flow	Bexar Co.	Shaenfield Road	Loop 1604	FM 1560	2006		0.180	0.060
raffic Flow	Bexar Co.	Braun Road	Loop 1604	FM 1560	2004		1.600	0.530
raffic Flow	Bexar Co.	Borgfeld Road	Hwy 281	Timberline	2004		2.750	0.920
raffic Flow	Bexar Co.	Bulverde Road	Smithson Valley	Hwy 281	2006		0.300	0.100
raffic Flow	Bexar Co.	Foster Road	I-10	Binz-Engleman	2004		2.160	0.720
raffic Flow	Bexar Co.	Kriewald Road	Hwy 90	Pue Road	2006		0.140	0.050
raffic Flow	Bexar Co.	Lakeview Drive	Woodlake Parkway	Foster Road	2006		0.460	0.150
raffic Flow	Bexar Co.	Pue Road	Kriewald Road	Sunset Place	2006		0.660	0.220
raffic Flow	Bexar Co.	Smith Road	Hwy 16		2006		0.900	0.300
raffic Flow	Bexar Co.	Wiseman Road	Loop 1604 west	Talley Road.	2004		5.350	1.780
raffic Flow	Bexar Co.	Woodlake Parkway	Binz-Engleman	FM 78	2006		1.580	0.530
raffic Flow	Bexar Co.	Applewhite Road	Watson Road	Loop 1604.	2004		9.473	3.158
MS	TxDOT	IH 35	FM 1976 (Walzem Road)	New Braunfels Ave.	1999	1999	151.37	50.46
MS	TxDOT	US 90	0.8 Mi W. of IH 410	Loop 353 Nogalitos	1999	1999	89.898	29.966
MS	TxDOT	IH 35	Guadalupe County Line NE	1.77 KM N of FM 1976 (Frat Interch	2000	2000	41.339	13.780
MS	TxDOT	IH 36	1.77 KM N. of FM 1976 (Fratt int.)	FM 1976 (Walzem)	2000	2000	30.396	10.132
MS	TxDOT	IH 37	Loop 13	1.3 Mi S of US 181	2000	2000	9.089	3.030
MS	TxDOT	IH 410	Callaghan Road	Fredericksburg Road	2000	2000	37.141	12.380
MS	TxDOT	Loop 1604	0.8 KM W of Babcock Road	SH 16(N)	2000	2000	14.741	4.914
TS	TxDOT	Loop 1604	On N and S frontage roads FM 153	Bitters Rd	2001	2001	6.079	2.026
TS	TxDOT	Loop 1604	3.21 KM E. of US 281 N.	1.61 KMN of FM 2252	1999	1999	52.434	17.478
TS	TxDOT	US 281	0.6 Mi N of Loop 1604	2.5 Mi N of Loop 1604	2004		26.445	8.815
MS	TxDOT	Upgrade to 10 lane freeway and TMS	Ingram Road	Callaghan Road	2006		103.350	34.449
TS	COSA	Houston - Walters To Onslow	Onslow	New Braunfels	2003	2003	2.085	0.695